

RAW SEQUENCE LISTING

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Application Serial Number: 10/021,818A
Source: IFW16
Date Processed by STIC: 3-10-05

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IFW16

RAW SEQUENCE LISTING

DATE: 03/10/2005

PATENT APPLICATION: US/10/021,818A

TIME: 14:31:45

Input Set : A:\updated seq list.txt

Output Set: N:\CRF4\03102005\J021818A.raw

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3 <110> APPLICANT: Davis, Ronald W.
4   Vaillancourt, Peter
6 <120> TITLE OF INVENTION: Dimeric Fluorescent Polypeptides
8 <130> FILE REFERENCE: 25436/1652
10 <140> CURRENT APPLICATION NUMBER: US 10/021,818A
11 <141> CURRENT FILING DATE: 2001-12-13
13 <150> PRIOR APPLICATION NUMBER: US 60/256,121
14 <151> PRIOR FILING DATE: 2000-12-15
16 <160> NUMBER OF SEQ ID NOS: 72
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 720
22 <212> TYPE: DNA
23 <213> ORGANISM: Renilla reniformis
25 <400> SEQUENCE: 1
26 atggttgagta aacaaatatt gaagaacact ggattgcagg agatcatgtc gtttaaagtg      60
28 aatctggaag gtgtagtaaa caatcatgtg ttcacaatgg aagggttgagg aaaaggaaat      120
30 attttattcg gaaaccaact ggttcagatt cgtgtcacia aaggggtccc gcttccattt      180
32 gcatttgata ttctctcacc agctttccaa tacggcaacc gtacattcac gaaatacccg      240
34 gaggatatat cagacttttt tatacaatca tttccagcgg gatttgata cgaaagaacg      300
36 ttgcgttacg aagatgggtg actgggtgaa atccgttcag atataaattt aatcgaggag      360
38 atgtttgtct acagagtggg atataaagggt agtaacttcc cgaatgatgg tccagtgatg      420
40 aagaagacaa tcacaggatt acaaccttcg ttcgaagttg tgtatatgaa cgatggcggtc      480
42 ttggttggcc aagtcattct tgtttataga ttaaactctg gcaaatttta ttcgtgtcac      540
44 atgagaacac tgatgaaatc aaaggggtgta gtgaaggatt ttcccgaata ccatttcatt      600
46 caacatcggt tagagaagac tgatgtggaa gacggagggt ttgttgagca acacgagacg      660
48 gccattgctc aactgacatc gctggggaaa ccacttgatg ccttacacga atgggtttaa      720
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 238
53 <212> TYPE: PRT
54 <213> ORGANISM: Renilla reniformis
56 <400> SEQUENCE: 2
58 Met Ser Lys Gln Ile Leu Lys Asn Thr Gly Leu Gln Glu Ile Met Ser
59 1           5           10           15
62 Phe Lys Val Asn Leu Glu Gly Val Val Asn Asn His Val Phe Thr Met
63           20           25           30
66 Glu Gly Cys Gly Lys Gly Asn Ile Leu Phe Gly Asn Gln Leu Val Gln
67           35           40           45
70 Ile Arg Val Thr Lys Gly Val Pro Leu Pro Phe Ala Phe Asp Ile Leu
71           50           55           60
74 Ser Pro Ala Phe Gln Tyr Gly Asn Arg Thr Phe Thr Lys Tyr Pro Glu
75 65           70           75           80
78 Asp Ile Ser Asp Phe Phe Ile Gln Ser Phe Pro Ala Gly Phe Val Tyr

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79          85          90          95
82 Glu Arg Thr Leu Arg Tyr Glu Asp Gly Gly Leu Val Glu Ile Arg Ser
83          100          105          110
86 Asp Ile Asn Leu Ile Glu Glu Met Phe Val Tyr Arg Val Glu Tyr Lys
87          115          120          125
90 Gly Ser Asn Phe Pro Asn Asp Gly Pro Val Met Lys Lys Thr Ile Thr
91          130          135          140
94 Gly Leu Gln Pro Ser Phe Glu Val Val Tyr Met Asn Asp Gly Val Leu
95 145          150          155          160
98 Val Gly Gln Val Ile Leu Val Tyr Arg Leu Asn Ser Gly Lys Phe Tyr
99          165          170          175
102 Ser Cys His Met Arg Thr Leu Met Lys Ser Lys Gly Val Val Lys Asp
103          180          185          190
106 Phe Pro Glu Tyr His Phe Ile Gln His Arg Leu Glu Lys Thr Asp Val
107          195          200          205
110 Glu Asp Gly Gly Phe Val Glu Gln His Glu Thr Ala Ile Ala Gln Leu
111          210          215          220
114 Thr Ser Leu Gly Lys Pro Leu Gly Ser Leu His Glu Trp Val
115 225          230          235
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 720
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: R. reniformis GFP polynucleotide sequence adapted to
humanize cod
125      on usage
127 <400> SEQUENCE: 3
128 atggtgagca agcagatcct gaagaacacc tgcctgcagg aggtgatgag ctacaagggtg      60
130 aacctggagg gcatcgtgaa caaccacgtg ttcaccatgg agggctgcgg caagggcaac      120
132 atcctgttcg gcaaccagct ggtgcagatc cgcgtgaacca agggcgcccc cctgcccttc      180
134 gccttcgaca tcgtgagccc cgccttcacg tacggcaacc gcaccttcac caagtacccc      240
136 aacgacatca gcgactactt catccagagc ttccccgcgc gcttcatgta cgagcgcacc      300
138 ctgcgctacg aggacggcgg cctggtggag atccgcagcg acatcaacct gatcgaggac      360
140 aagttcgtgt accgcgtgga gtacaagggc agcaacttcc ccgacgacgg ccccgatgat      420
142 cagaagacca tcctgggcat cgagcccagc ttcgaggcca tgtacatgaa caacggcgtg      480
144 ctggtgggcg aggtgatcct ggtgtacaag ctgaacagcg gcaagtacta cagctgccac      540
146 atgaagaccc tgatgaagag caagggcgtg gtgaaggagt tcccctocta ccacttcac      600
148 cagcaccgcc tggagaagac ctacgtggag gacggcggct tcgtggagca gcacgagacc      660
150 gccatcgccc agatgaccag catcggcaag cccctgggca gcctgcacga gtgggtgtaa      720
153 <210> SEQ ID NO: 4
154 <211> LENGTH: 239
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Sequence of R. reniformis GFP polypeptide encoded by
humanized R.
160      reniformis GFP polynucleotide sequence
162 <400> SEQUENCE: 4
164 Met Val Ser Lys Gln Ile Leu Lys Asn Thr Gly Leu Gln Glu Ile Met
165 1          5          10          15

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168 Ser Phe Lys Val Asn Leu Glu Gly Val Val Asn Asn His Val Phe Thr
169          20          25          30
172 Met Glu Gly Cys Gly Lys Gly Asn Ile Leu Phe Gly Asn Gln Leu Val
173          35          40          45
176 Gln Ile Arg Val Thr Lys Gly Ala Pro Leu Pro Phe Ala Phe Asp Ile
177          50          55          60
180 Leu Ser Pro Ala Phe Gln Tyr Gly Asn Arg Thr Phe Thr Lys Tyr Pro
181 65          70          75          80
184 Glu Asp Ile Ser Asp Phe Phe Ile Gln Ser Phe Pro Ala Gly Phe Val
185          85          90          95
188 Thr Glu Arg Thr Leu Arg Tyr Glu Asp Gly Gly Leu Val Glu Ile Arg
189          100          105          110
192 Ser Asp Ile Asn Leu Ile Glu Glu Met Phe Val Tyr Arg Val Glu Tyr
193          115          120          125
196 Lys Gly Ser Asn Phe Pro Asn Asp Gly Pro Val Met Lys Lys Thr Ile
197          130          135          140
200 Thr Gly Leu Gln Pro Ser Phe Glu Val Val Tyr Met Asn Asp Gly Val
201 145          150          155          160
204 Leu Val Gly Gln Val Ile Leu Val Tyr Arg Leu Asn Ser Gly Lys Phe
205          165          170          175
208 Tyr Ser Cys His Met Arg Thr Leu Met Lys Ser Lys Gly Val Val Lys
209          180          185          190
212 Asp Phe Pro Glu Tyr His Phe Ile Gln His Arg Leu Glu Lys Thr Tyr
213          195          200          205
216 Val Glu Asp Gly Gly Phe Val Glu Gln His Glu Thr Ala Ile Ala Gln
217          210          215          220
220 Leu Thr Ser Leu Gly Lys Pro Leu Gly Ser Leu His Glu Trp Val
221 225          230          235
224 <210> SEQ ID NO: 5
225 <211> LENGTH: 10
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Synthetic peptide linker sequence
232 <400> SEQUENCE: 5
234 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
235 1          5          10
238 <210> SEQ ID NO: 6
239 <211> LENGTH: 15
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Synthetic linker peptide
246 <400> SEQUENCE: 6
248 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
249 1          5          10          15
252 <210> SEQ ID NO: 7
253 <211> LENGTH: 20
254 <212> TYPE: PRT

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255 <213> ORGANISM: Artificial sequence
 257 <220> FEATURE:
 258 <223> OTHER INFORMATION: Synthetic linker peptide
 260 <400> SEQUENCE: 7
 262 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 263 1 5 10 15
 266 Gly Gly Gly Ser
 267 20
 270 <210> SEQ ID NO: 8
 271 <211> LENGTH: 11
 272 <212> TYPE: PRT
 273 <213> ORGANISM: Artificial sequence
 275 <220> FEATURE:
 276 <223> OTHER INFORMATION: Synthetic linker peptide
 278 <400> SEQUENCE: 8
 280 Arg Ala Arg Asp Pro Arg Val Pro Val Ala Thr
 281 1 5 10
 284 <210> SEQ ID NO: 9
 285 <211> LENGTH: 2
 286 <212> TYPE: PRT
 287 <213> ORGANISM: Artificial Sequence
 289 <220> FEATURE:
 290 <223> OTHER INFORMATION: synthetic linker peptide
 292 <400> SEQUENCE: 9
 294 Gly Ser
 295 1
 298 <210> SEQ ID NO: 10
 299 <211> LENGTH: 4
 300 <212> TYPE: PRT
 301 <213> ORGANISM: Artificial Sequence
 303 <220> FEATURE:
 304 <223> OTHER INFORMATION: Synthetic linker peptide
 306 <400> SEQUENCE: 10
 308 Gly Ser Gly Ser
 309 1
 312 <210> SEQ ID NO: 11
 313 <211> LENGTH: 6
 314 <212> TYPE: PRT
 315 <213> ORGANISM: Artificial Sequence
 317 <220> FEATURE:
 318 <223> OTHER INFORMATION: Synthetic linker peptide
 320 <400> SEQUENCE: 11
 322 Gly Ser Gly Ser Gly Ser
 323 1 5
 326 <210> SEQ ID NO: 12
 327 <211> LENGTH: 8
 328 <212> TYPE: PRT
 329 <213> ORGANISM: Artificial Sequence
 331 <220> FEATURE:

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Input Set : A:\updated seq list.txt

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332 <223> OTHER INFORMATION: Synthetic linker peptide
334 <400> SEQUENCE: 12
336 Gly Ser Gly Ser Gly Ser Gly Ser
337 1 5
340 <210> SEQ ID NO: 13
341 <211> LENGTH: 10
342 <212> TYPE: PRT
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Synthetic linker peptide
348 <400> SEQUENCE: 13
350 Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
351 1 5 10
354 <210> SEQ ID NO: 14
355 <211> LENGTH: 12
356 <212> TYPE: PRT
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: Synthetic linker peptide
362 <400> SEQUENCE: 14
364 Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
365 1 5 10
368 <210> SEQ ID NO: 15
369 <211> LENGTH: 14
370 <212> TYPE: PRT
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:
374 <223> OTHER INFORMATION: Synthetic linker peptide
376 <400> SEQUENCE: 15
378 Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
379 1 5 10
382 <210> SEQ ID NO: 16
383 <211> LENGTH: 16
384 <212> TYPE: PRT
385 <213> ORGANISM: Artificial Sequence
387 <220> FEATURE:
388 <223> OTHER INFORMATION: Synthetic linker peptide
390 <400> SEQUENCE: 16
392 Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
393 1 5 10 15
396 <210> SEQ ID NO: 17
397 <211> LENGTH: 18
398 <212> TYPE: PRT
399 <213> ORGANISM: Artificial Sequence
401 <220> FEATURE:
402 <223> OTHER INFORMATION: Synthetic linker peptide
404 <400> SEQUENCE: 17
406 Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
407 1 5 10 15

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VERIFICATION SUMMARY

DATE: 03/10/2005

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Input Set : A:\updated seq list.txt

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